

ISAAC (ZAC) ADJEI

✉ Email: contact@zaccess.com | 🌐 Portfolio: zaccess.com

🔗 LinkedIn: [Isaac-Adjiei](https://www.linkedin.com/in/isaac-adjei) | 🐙 GitHub: [zaccess](https://github.com/zaccess)

PROFILE

I'm Isaac Adjiei (*preferred Zac*), an engineering and tech student with a resilient, solutions-focused mindset. Living with partial sight since childhood has strengthened my determination and I'm inspired by my late father's engineering legacy. I'm seeking internships, placements or part-time roles in engineering and tech.

EDUCATION

Aston University | BEng (Hons) Electronic Engineering and Computer Science

*Birmingham | Oct
2024 - 2028*

Predicted: First Class Honours

- Key focus: analogue and digital electronics, programming (Python, C/C++, Java), web development (HTML, CSS, Javascript) and embedded system fundamentals

Stanmore College | Pearson BTEC Level 3 National Extended Diploma in Engineering (D*DD)

*London | Sep 2022 -
Jul 2024*

- GCSEs (or equivalent): English Language and Mathematics
- Electrical principles, engineering product design, microcontroller systems and CAD
- Award: Best and Most Hardworking Engineering Student (2024)

Adisadel College | WASSCE (General Arts)

Cape Coast, Ghana | Sep 2019 - Aug 2022

- Demonstrated leadership and teamwork through school roles and extracurricular activities, including robotics and debate

PROJECTS

NeoPixel LED Cube | Arduino Uno, C++

Jan 2025 - Apr 2025

- Built a 64-LED 4x4x4 WS2812B cube with modular animation patterns and reusable firmware structure
- Implemented non-blocking updates (millis), debounced buttons, serial diagnostics and LDR-based brightness mapping

➤ Additional projects available on GitHub and portfolio.

EXPERIENCE

Engineering Operations | British Airways

Remote | Oct 2025

- Analysed A320 maintenance schedules, material requirements and risks, producing planning outputs and WREQ-style reporting

Smart Mobility Experience | Yunex Traffic

Remote | Aug 2025

- Explored intelligent transport systems and sensor integration, creating an air-quality monitoring infographic

Consular Intern | Ghana High Commission

*London | Jul 2024 -
Aug 2024*

- Supported passport and visa workflows, document verification and client enquiries with accuracy and confidentiality

HVAC Apprentice | Massive Refrigeration

Accra | 2019 - 2021

- Assisted with air-conditioner servicing and maintenance using hand tools and diagnostic meters while following safety procedures

SKILLS & INTERESTS

Programming: C, C++, Python & Java

Embedded and Electronics: Arduino, AVR, STM32, ESP32, breadboarding, soldering, circuit measurement & UART

Web Development: HTML, CSS, JavaScript, React, Tailwind CSS, Bootstrap, Node.js, Express, FastAPI, Flask & Django

Databases: MongoDB, MySQL and PostgreSQL

AI and Data: PyTorch, TensorFlow, NumPy, Pandas, OpenCV, Matplotlib, Jupyter & Anaconda

Cloud and DevOps: AWS, Azure and Google Cloud, Docker, Kubernetes, GitHub Actions & Linux

Cyber Security: Kali Linux, Bash & PowerShell

Tools and IDEs: Git and GitHub, VS Code, JetBrains IDEs & PlatformIO

Engineering and Design Tools: KiCad, Proteus, MATLAB, Quartus Prime, COMSOL, Fusion 360, AutoCAD & SolidWorks

Test and Lab Equipment: oscilloscope, function generator, bench power supply & logic analyser

Languages: English, Twi and Ga (fluent), French (basic)

Interests: builds, robotics, piano, fitness, travel and cycling